

**ABSTRACT**

The present invention relates to an X-ray tube capable of efficiently extracting X-rays of low energy and provided with a structure having excellent durability. The X-ray tube is provided with a silicon foil having a thickness of 3  $\mu\text{m}$  or more but 30  $\mu\text{m}$  or less as a part of a vessel body. The silicon foil is directly or indirectly affixed on the closed vessel in a state that the silicon foil covers the opening provided in the closed vessel, and functions as a transmission window of the closed vessel.

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